SIEMENS

Data sheet

3RT1076-6AP36



power contactor, AC-3e/AC-3 500 A, 250 kW / 400 V AC (50-60 Hz) / DC Uc: 220-240 V 3-pole, auxiliary contacts 2 NO + 2 NC drive: conventional main circuit: busbar control and auxiliary circuit: screw terminal

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT1
General technical data	
size of contactor	S12
product extension	
 function module for communication 	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	165 W
 at AC in hot operating state per pole 	55 W
 without load current share typical 	10 W
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	1 000 V
 of auxiliary circuit with degree of pollution 3 rated value 	500 V
surge voltage resistance	
 of main circuit rated value 	8 kV
 of auxiliary circuit rated value 	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	690 V
shock resistance at rectangular impulse	
• at AC	8,5g / 5 ms, 4,2g / 10 ms
• at DC	8,5g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at AC	13,4g / 5 ms, 6,5g / 10 ms
• at DC	13,4g / 5 ms, 6,5g / 10 ms
mechanical service life (operating cycles)	
 of contactor typical 	10 000 000
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000
of the contactor with added auxiliary switch block typical	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	05/01/2012
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %

Aain circuit				
number of poles for main current circuit	3			
number of NO contacts for main contacts	3			
operating voltage				
 at AC-3 rated value maximum 	1 000 V			
 at AC-3e rated value maximum 	1 000 V			
operational current				
• at AC-1 at 400 V at ambient temperature 40 °C rated value	610 A			
• at AC-1				
 up to 690 V at ambient temperature 40 °C rated value 	610 A			
— up to 690 V at ambient temperature 60 °C rated value	550 A			
— up to 1000 V at ambient temperature 40 $^\circ\mathrm{C}$ rated value	200 A			
— up to 1000 V at ambient temperature 60 $^\circ\mathrm{C}$ rated value	200 A			
• at AC-3				
— at 400 V rated value	500 A			
— at 500 V rated value	500 A			
— at 690 V rated value	450 A			
— at 1000 V rated value	180 A			
• at AC-3e				
— at 400 V rated value	500 A			
— at 500 V rated value	500 A			
— at 690 V rated value	450 A			
— at 1000 V rated value	180 A			
 at AC-4 at 400 V rated value 	430 A			
 at AC-5a up to 690 V rated value 	536 A			
• at AC-5b up to 400 V rated value	415 A			
● at AC-6a				
— up to 230 V for current peak value n=20 rated value	414 A			
 up to 400 V for current peak value n=20 rated value 	414 A			
up to 500 V for current peak value n=20 rated value	414 A			
— up to 690 V for current peak value n=20 rated value	414 A			
— up to 1000 V for current peak value n=20 rated value	180 A			
● at AC-6a				
 — up to 230 V for current peak value n=30 rated value 	276 A			
 up to 400 V for current peak value n=30 rated value 	276 A			
— up to 500 V for current peak value n=30 rated value	276 A			
— up to 690 V for current peak value n=30 rated value	276 A			
— up to 1000 V for current peak value n=30 rated value	180 A			
minimum cross-section in main circuit at maximum AC-1 rated value	370 mm²			
operational current for approx. 200000 operating cycles at AC-4				
• at 400 V rated value	175 A			
• at 690 V rated value	150 A			
operational current				
 at 1 current path at DC-1 				
— at 24 V rated value	400 A			
— at 60 V rated value	330 A			
— at 110 V rated value	33 A			
— at 220 V rated value	3.8 A			
— at 440 V rated value	0.9 A			
— at 600 V rated value	0.6 A			
 with 2 current paths in series at DC-1 				
— at 24 V rated value	400 A			
— at 60 V rated value	400 A			
— at 110 V rated value	400 A			

— at 220 V rated value	400 A
— at 440 V rated value	4 A
— at 600 V rated value	2 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	400 A
— at 60 V rated value	400 A
— at 110 V rated value	400 A
— at 220 V rated value	400 A
— at 440 V rated value	11 A
— at 600 V rated value	5.2 A
 at 1 current path at DC-3 at DC-5 	
— at 24 V rated value	400 A
— at 60 V rated value	11 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.18 A
— at 600 V rated value	0.125 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	400 A
— at 60 V rated value	400 A
— at 110 V rated value	400 A
— at 220 V rated value	2.5 A
— at 440 V rated value	0.65 A
— at 600 V rated value	0.37 A
 with 3 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	400 A
— at 60 V rated value	400 A
— at 110 V rated value	400 A
— at 220 V rated value	400 A
— at 440 V rated value	1.4 A
— at 600 V rated value	0.75 A
operating power	
• at AC-3	
— at 230 V rated value	160 kW
— at 400 V rated value	250 kW
— at 500 V rated value	315 kW
— at 690 V rated value	400 kW
— at 1000 V rated value	250 kW
• at AC-3e	
— at 230 V rated value	160 kW
— at 400 V rated value	250 kW
— at 500 V rated value	315 kW
— at 690 V rated value	400 kW
— at 1000 V rated value	250 kW
operating power for approx. 200000 operating cycles at AC- 4	
at 400 V rated value	98 kW
• at 690 V rated value	148 kW
operating apparent power at AC-6a	
 up to 230 V for current peak value n=20 rated value 	160 000 kVA
 up to 400 V for current peak value n=20 rated value 	280 000 VA
 up to 500 V for current peak value n=20 rated value 	350 000 VA
 up to 690 V for current peak value n=20 rated value 	490 000 VA
• up to 1000 V for current peak value n=20 rated value	310 000 VA
operating apparent power at AC-6a	
 up to 230 V for current peak value n=30 rated value 	110 000 VA
 up to 400 V for current peak value n=30 rated value 	190 000 VA
 up to 500 V for current peak value n=30 rated value 	230 000 VA
 up to 690 V for current peak value n=30 rated value 	330 000 VA
 up to 1000 V for current peak value n=30 rated value 	
	310 000 VA

 limited to 1 s switching at zero current maximum 	7 484 A; Use minimum cross-section acc. to AC-1 rated value				
 limited to 5 s switching at zero current maximum 	7 484 A; Use minimum cross-section acc. to AC-1 rated value				
 limited to 10 s switching at zero current maximum 	5 978 A; Use minimum cross-section acc. to AC-1 rated value				
 limited to 30 s switching at zero current maximum 	3 765 A; Use minimum cross-section acc. to AC-1 rated value				
 limited to 60 s switching at zero current maximum 	2 887 A; Use minimum cross-section acc. to AC-1 rated value				
no-load switching frequency					
• at AC	2 000 1/h				
• at DC	2 000 1/h				
operating frequency					
● at AC-1 maximum	500 1/h				
● at AC-2 maximum	170 1/h				
• at AC-3 maximum	420 1/h				
• at AC-3e maximum	420 1/h				
● at AC-4 maximum	130 1/h				
Control circuit/ Control					
type of voltage of the control supply voltage	AC/DC				
control supply voltage at AC					
• at 50 Hz rated value	220 240 V				
at 60 Hz rated value	220 240 V				
control supply voltage at DC					
rated value	220 240 V				
operating range factor control supply voltage rated value of magnet coil at DC					
• initial value	0.8				
• full-scale value	1.1				
operating range factor control supply voltage rated value of magnet coil at AC					
• at 50 Hz	0.8 1.1				
• at 60 Hz	0.8 1.1				
design of the surge suppressor	with varistor				
apparent pick-up power of magnet coil at AC • at 50 Hz	830 VA				
• at 50 Hz	830 VA				
inductive power factor with closing power of the coil					
• at 50 Hz	0.9				
• at 60 Hz	0.9				
apparent holding power of magnet coil at AC					
• at 50 Hz	9.2 VA				
• at 60 Hz	9.2 VA				
inductive power factor with the holding power of the coil					
• at 50 Hz	0.9				
• at 60 Hz	0.9				
closing power of magnet coil at DC	920 W				
holding power of magnet coil at DC	10 W				
closing delay					
• at AC	45 100 ms				
• at DC	45 100 ms				
opening delay					
• at AC	60 100 ms				
• at DC	60 100 ms				
arcing time	10 15 ms				
control version of the switch operating mechanism	Standard A1 - A2				
Auxiliary circuit					
number of NC contacts for auxiliary contacts instantaneous contact	2				
number of NO contacts for auxiliary contacts instantaneous contact	2				
operational current at AC-12 maximum	10 A				
operational current at AC-15					
• at 230 V rated value	6 A				
at 400 V rated value	3 A				
• at 500 V rated value	2 A				

	4.4			
at 690 V rated value	1 A			
operational current at DC-12	10.1			
at 24 V rated value	10 A			
at 48 V rated value	6 A			
 at 60 V rated value 	6 A			
 at 110 V rated value 	3 A			
 at 125 V rated value 	2 A			
 at 220 V rated value 	1 A			
at 600 V rated value	0.15 A			
operational current at DC-13				
 at 24 V rated value 	10 A			
 at 48 V rated value 	2 A			
 at 60 V rated value 	2 A			
 at 110 V rated value 	1 A			
 at 125 V rated value 	0.9 A			
 at 220 V rated value 	0.3 A			
• at 600 V rated value	0.1 A			
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)			
UL/CSA ratings				
full-load current (FLA) for 3-phase AC motor				
• at 480 V rated value	477 A			
• at 600 V rated value	472 A			
yielded mechanical performance [hp]				
• for 3-phase AC motor				
— at 200/208 V rated value	150 hp			
— at 220/230 V rated value	200 hp			
— at 460/480 V rated value	400 hp			
— at 575/600 V rated value	500 hp			
contact rating of auxiliary contacts according to UL	A600 / Q600			
Short-circuit protection				
aesign of the fuse link				
 design of the fuse link for short-circuit protection of the main circuit 				
• for short-circuit protection of the main circuit	gG: 630 A (690 V, 100 kA)			
 for short-circuit protection of the main circuit — with type of coordination 1 required 	gG: 630 A (690 V, 100 kA) gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50			
 for short-circuit protection of the main circuit 	gG: 630 A (690 V, 100 kA) gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA)			
 for short-circuit protection of the main circuit — with type of coordination 1 required 	gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50			
 for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required 	gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA)			
 for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required for short-circuit protection of the auxiliary switch required 	gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA)			
 for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions	gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface			
for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position	gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back			
for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method	gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing			
for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting	gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes			
for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height	gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm			
for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width	gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm			
for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth	gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm			
for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing	gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm			
 for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height width depth required spacing with side-by-side mounting 	gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm			
 for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height width depth required spacing with side-by-side mounting forwards 	gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm			
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 for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height width depth required spacing with side-by-side mounting forwards upwards at the side 	gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm 20 mm 10 mm			
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 for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height width depth required spacing with side-by-side mounting forwards upwards at the side for grounded parts forwards forwards 	gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm 20 mm 10 mm 0 mm			
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type of electrical conn	ection					
 for main current c 	circuit		Connection bar			
 for auxiliary and of 	control circuit		screw-type terminals			
 at contactor for at 	uxiliary contacts		Screw-type terminals			
 of magnet coil 			Screw-type terminals			
width of connection ba			25 mm			
thickness of connection	on bar		6 mm			
diameter of holes			11 mm			
number of holes		_	1			
	r cross-section for main c	ontacts				
stranded		_	70 240 mm²			
	r cross-section for auxilia	ry contacts				
 solid or stranded 			0.5 4 mm ²			
	ith core end processing		0.5 2.5 mm ²	2.5 mm²		
	onductor cross-sections					
 for auxiliary containing 	acts					
— solid			2x (0.5 1.5 mm ²), 2x (0.75		<i>'</i>	
— solid or stra	nded		2x (0,5 1,5 mm ²), 2x (0,75		4 mm²)	
	led with core end processing	9	2x (0.5 1.5 mm ²), 2x (0.75			
	or auxiliary contacts		2x (20 16), 2x (18 14), 1x	: 12		
AWG number as code section	d connectable conductor of	cross				
 for auxiliary conta 	acts		18 14			
Safety related data						
product function						
•	cording to IEC 60947-4-1		Yes			
	operation according to IEC 6	0047 5 1	No			
	nand rate according to SN 3		1 000 000			
	nterval or service life accordi		20 a			
61508			200			
protection class IP on the front according to IEC 60529			IP00; IP20 with box terminal/cover			
touch protection on the front according to IEC 60529			finger-safe, for vertical contact from the front with box terminal/cover			
suitability for use						
 safety-related swi 	itching OFF		Yes			
Certificates/ approvals						
General Product Appr	oval				EMC	
SP:	<u>Confirmation</u>	()	(YL)	EAC	Ø	
CSA		ccc	UL		RCM	
Functional Safety/Safety of Ma- chinery	Declaration of Conformi	ty	Test Certificates			
Type Examination Cer- tificate	C C EG-Konf.	UK CA	Special Test Certific- ate	Type Test Certific- ates/Test Report	<u>Miscellaneous</u>	
Marine / Shipping					other	
		-	<i>•</i>		Confirment	
ABS	Lloyd's Register uis	PRS	RMRS		<u>Confirmation</u>	
other			Railway			
Miscellaneous	<u>Miscellaneous</u>	Confirmation	Vibration and Shock	Special Test Certific-		
3RT10766AP36				Subject to a	change without notice	

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1076-6AP36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1076-6AP36

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RT1076-6AP36

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

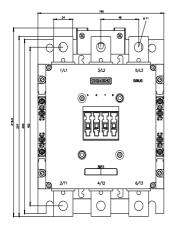
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1076-6AP36&lang=en

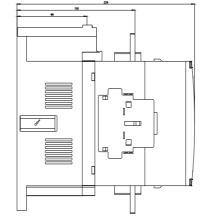
Characteristic: Tripping characteristics, I²t, Let-through current

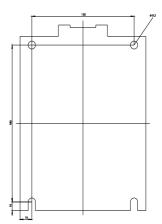
https://support.industry.siemens.com/cs/ww/en/ps/3RT1076-6AP36/char

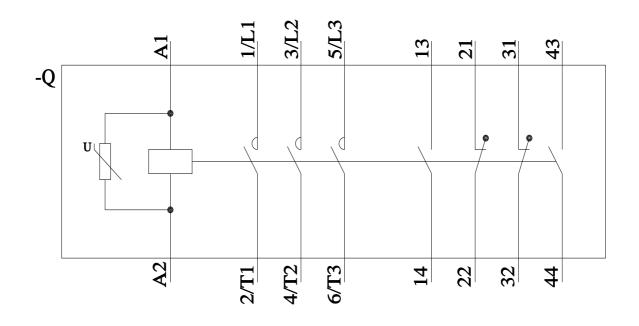
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1076-6AP36&objecttype=14&gridview=view1









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